# Battery Module Storage and Replacement (Symmetra® PX and Smart-UPS® VT)



Warning: Only trained persons familiar with the construction and operation of the equipment, as well as the electrical and mechanical hazards involved, may install and remove system components.



**Caution:** Wait until the system is ready to be powered up before installing Battery Modules in the UPS. Failure to do so can result in a deep discharge of the batteries and cause permanent damage (the time from the battery installation time till the UPS is powered up should not exceed 72 hours or 3 days).

# **Directions for replacement**



Caution: Do not mix battery units. Replace with same model.

### Battery Enclosures with four batteries in a row.

APC recommends that a whole battery module (one row of batteries) is replaced at the same time to ensure optimal run-time (see Example 1). However it is only necessary to replace two batteries at the same time according to Example 2 and 3 in the table below.

	Column A	Column B	Column C	Column D
Example 1	New	New	New	New
Example 2	New	New	Old	Old
Example 3	Old	Old	New	New

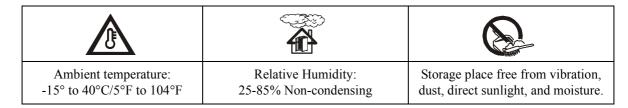
#### Battery Enclosures with two modules in a row.

Replace both batteries in one row at the same time.

Column A	Column B
New	New

# How to store the battery modules

The battery modules must be stored indoors and with their protective packaging still in place.



Stored batteries should be recharged at regular intervals depending on the storage temperature:

Storage Temperature	Recharge interval	
-15° to 20°C/5°F to 68°F	9 months	
20° to 30°C/68°F to 86°F	6 months	
30° to 40°C/86°F to 104°F	3 months	

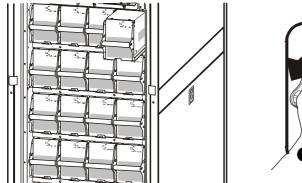


Caution: Do not store the batteries for more than 12 months.

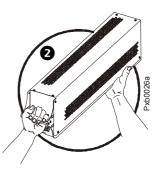
## How to replace the battery modules



Use two people to lift components weighing between 18–32 kg/40–70 lb.







- Holding the handle, gently lift the battery unit and pull it halfway out. A lock mechanism prevents it from being pulled all the way out.
- 2 Release the lock by pushing the battery unit upwards and pull the battery unit all the way out while supporting it
- 3 Take the replacement battery unit and push it into the system.



Allow for a 24-hour recharging period of the batteries after system start-up/battery replacement for battery monitoring data to become fully reliable.